INSTRUCTION BOOK

MODEL 1940

INTERSTAGE FILTER

FREED TRANSFORMER CO. INC.

INSTRUMENT DIVISION

# INSTRUCTION MANUAL

**FREED TRANSFORMER CO., INC.**

1718 WEIRFIELD ST., BROOKLYN (RIDGEWOOD) 27, N. Y.

MP MASTER

MA34268

# INSTRUCTION BOOK

# MODEL 1940

# INTERSTAGE FILTER

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# FREED TYPE 1940 INTERSTAGE FILTER

## USES

THIS FILTER WAS DESIGNED TO BE USED WITH THE FREED TYPE 1140-A NULL DETECTOR AMPLIFIER AND THE TYPE 1210-A NULL DETECTOR VTVM.

THE FILTERS ARE PARALLEL RESONANT CIRCUITS AND ARE TO BE USED IN THE PLATE CIRCUIT OF THE AMPLIFIER. THE DC CURRENT THROUGH THE INDUCTORS IS LIMITED TO 3 MA. TERMINALS ARE PROVIDED FOR CONNECTING AN EXTERNAL CAPACITOR TO TUNE TO ANY FREQUENCY BETWEEN 50CPS AND 20KC.

THE UNIT CONSISTS OF FOUR INDUCTORS. L1 COVERS THE FREQUENCY RANGE FORM 50CPS TO 400CPS. TUNED CIRCUITS FOR 100CPS AND 200CPS ARE ADJUSTED WITHIN 2%. TO OBTAIN ANY OTHER FREQUENCY CONNECT AN EXTERNAL CAPACITOR ACROSS THE C TERMINALS. THE VALUE OF THIS CAPACITOR MAY EASILY BE CALCULATED.
L1 = 6 HENRY.

L2 SHOULD BE USED BETWEEN 400 AND 1KC. L2 = 900 MH.
L3 SHOULD BE USED BETWEEN 1KC AND 5KC. L3 = 360 MH.
L4 SHOULD BE USED ABOVE 5KC. L4 = 30 MH.

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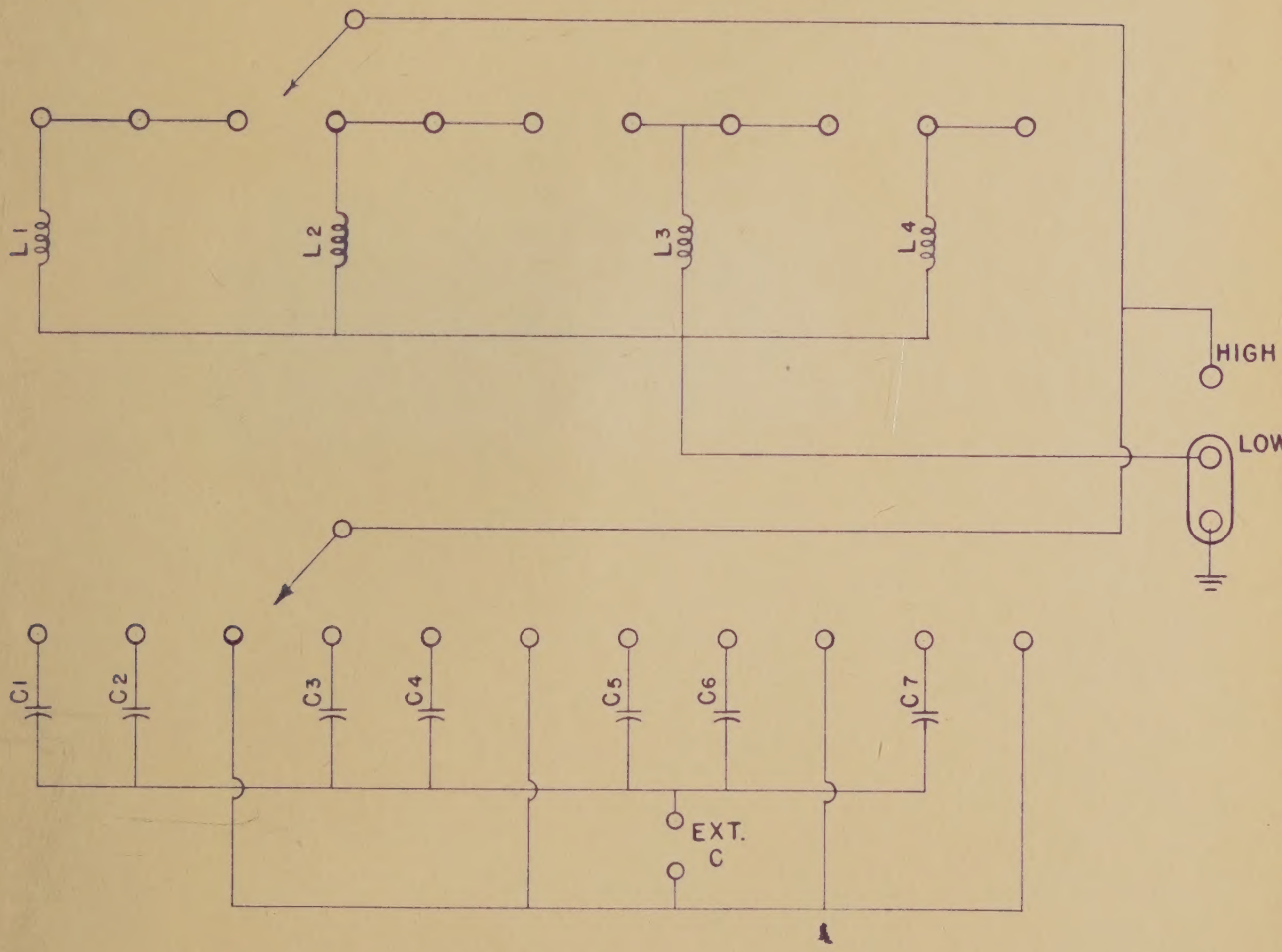
# INTERSTAGE FILTER



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